

December 11, 2002

MODIS sensor Working Group (MsWG) Summary

Attendance: Bill Barnes, Vincent Chiang, Bob Evans, Vince Salomonson, Junqiang Sun, Gary Toller, Jack Xiong, Eric Vermote, Zhengming Wan, Joe Esposito

Scheduled Items

Item 1 Instrument Status:

Aqua and Terra.

BB) Terra is performing well

Aqua is performing well

There will be a MODIS meeting at GSFC on Thursday

Item 2 LUT Update:

Recent update for Aqua.

JX) A piecewise update of the Aqua LUT has been submitted. Most bands remain unchanged except for B8, 9, and 3 in the RSB LUT.

MCST would like to update for Terra forward process.

JX) A meeting in Miami is scheduled on December 18 for MCST/Miami to discuss an update. Miami should reserve 9-4 on the 18th for the meeting.

Item 3 MCST issues:

Work on the Aqua SWIR thermal leak (results to be sent to Chris and Eric for review).

JX) MCST is working on SWMIR cross talk looking to determine best sending band. For B26 any band (B23, 24, 25, or 28) will do. For B5 possibly B23 or 24 is better but B28 will do. (*MCST action: send analysis results when ready to Chris Moeller and Eric Vermote*)

EV) B28 is preferred during daylight due to B24 responding to daylight.

Test of reducing striping (single detector) in MWIR bands in process.

JX) MCST is working on Aqua single detector stripping (end detector in MWIR) looking for the best sending band. MCST is also paying attention to SWIR.

SD degradation for both Terra and Aqua.

JX) Comparison of SD degradation using the SDSM over the first 200 days of Aqua and Terra shows very similar trends (SDSM D1 at 412nm: Terra 1.8% degradation, Aqua 2% degradation; SDSM D2 at 469nm: Terra ~1% degradation, Aqua 0.5% degradation).

Around the Table

Participant: Jack Xiong - Need input for the coming Science Team Meeting

- JX) Last meeting SeaWifs team requested m1, SRCA and SV lunar calibration data for data (*MCST action: prepare and send the data to the SeaWifs team*)
- VS) What is being done about aerosols?
- JX) MCST has removed the negative dn^* constraint and is preparing the B6 data for Langley/NOAA (*MCST action: finalize prepared data, place the data on MCST FTP site, and inform Langley when data is ready*). Need to find impact on other teams due to negative values. The impact of the requested day-mode at night data collects has been looked at for Terra. Should have no impact on data collection.
- JX) Rob Wolf is to look at the effect of temperature on geo-location. MCST has sent the Terra temperature data to him.

Participant: Vince Salomonson – presenters at the AGU meeting see stripping on Terra in B1, 2 and in the water vapor bands.

- JX) MCST can calibrate but there is still stripping on some Terra Bands.
- EV) Terra band 7 stripping coefficients are being developed.
- VS) Also, the January STM will be delayed until February at the earliest.

Participant: Zhengming Wan – Will do a field campaign 1/13-31/2003 to compare Aqua and Terra.

- JX) MCST will let you know if calibrations may interfere with instrument data during the campaign.

Participant: Bob Evans – Gave a presentation in Europe on ocean color. It was very well received. Was asked how often the ocean products are being used. The DAAC will send this information next week. There were SST presentations on ATTSR results.

Participant: Bill Barnes - NOAA is talking about a new spacecraft to carry a hyper-spectral environmental sensor to measure open ocean and coastal ocean color from geo-synchronous orbit. This spacecraft is expected to launch during or after 2010.

Due to the upcoming holidays the next MsWG meeting will be on January 8, 2003